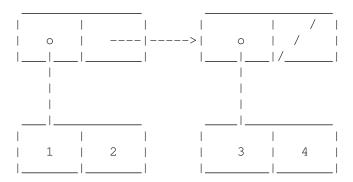
CSE 341 — Scheme dynamic scoping, inproper lists, quasiquote Discussion Questions

- 1. Draw a box-and-arrow picture for the value of (squid . (clam . (octopus . ())))
- 2. How would you write the following list structure in Scheme?



3. Given the following Scheme code:

```
(define n 0)
(define (get-n) n)
(define (squid) (get-n))
(define (octopus n) (squid))
```

what does (squid) evaluate to? What does (octopus 8) evaluate to? What would be the result in a dynamically scoped version of Scheme?

4. What is the value of x, y, and z after evaluating the following?

```
(define x '(clam))
(define y '(keep ,x))
(define z '(keep ,@x))
```